NEW ZEALAND RESEARCH INFORMATION SYSTEM

EXTREME WEATHER RESEARCH DATA SEPECIFICATIONS

V1.0 18 MAY 2023

Ministry of Business, Innovation and Employment (MBIE)
Hīkina Whakatutuki – Lifting to make successful

MBIE develops and delivers policy, services, advice and regulation to support economic growth and the prosperity and wellbeing of New Zealanders.

MORE INFORMATION

Information, examples and answers to your questions about the topics covered here can be found on our website: **www.mbie.govt.nz** or by calling us free on: **0800 20 90 20.**

DISCLAIMER

This document is a guide only. It should not be used as a substitute for legislation or legal advice. The Ministry of Business, Innovation and Employment is not responsible for the results of any actions taken on the basis of information in this document, or for any errors or omissions.

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PURPOSE

The New Zealand Research Information System (NZRIS) team at MBIE is coordinating a central source of data about extreme weather research and funding. This is intended as a work-in-progress data set primarily for:

> **researchers** to find out what research is happening and make connections.
> **communities** to understand the research response, where it has been directed, and to use research findings where applicable.

The NZRIS team is undertaking this work on behalf of the research, science and innovation sector. The data collected aligns with standards set by NZRIS, so that once NZRIS is up and running, this information can be incorporated our national system.

Data is provided by researchers and organisations. This means that the data in this spreadsheet belongs to the researchers and organisations who have submitted it. As it contains information provided voluntarily by researchers and organisations willing to share details on their work, it is by no means comprehensive. Some fields may be blank either because the data was not available or the submitter chose not to provide it. Note that MBIE is not responsible for the accuracy of the data, and we will direct enquiries about specific research activities to the organisation or researcher that provided the data.

This specification contains information about three types of entity:

> **awards**: decisions to allocate funding.
> **projects**: past or current research activities that may or may not have received funding.
> **outputs**: metadata about the outputs from research.

AWARD

There are a total of 27 elements that form the award dataset. There are 18 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Award ID, Local Award ID, Type, Status, Funder, Fund, Title, Description, Start Date, End Date, Keywords, Value, Māori Involvement, Benefitting Region, Lead Contributor(s), Other Named Contributor(s), Lead Organisation(s), Sub-recipient(s), End User Collaborator Organisation(s), ANZSRC Fields of Research, ANZSRC Socio-economic Objectives, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

Field	Format	Description	Guidance/Reason	Example
Award ID	Text, maximum 256 characters	The identifier given to this award by MBIE to identify it across different providers.	Added to the record following submission of data	EWRD-A-0001
Local Award ID	**Text, maximum 256 characters**	**The identifier used by the data provider to identify the award.**	**NA**	**MBIE-23-2013**
Type	**Code set, either "Individual", "Organisation", or "Multi-Organisation".**	**Whether this award has been made to an individual, organisation, or multiple organisations.**	**NA**	**NA**
Status	**Code set, either "Active", "On Hold", "Completed", "Partially Completed" or "Cancelled"**	**The status of the award.**	**Needed to identify when awards are actively being utilised.**	**NA**
Funder	**Text, maximum 512 characters**	**The name of the organisation granting the award.**	**NA**	**Ministry of Business, Innovation and Employment**
Fund	**Text, maximum 512 characters**	**The name of the fund that the award was granted from.**	**NA**	**Endeavour Fund**
Title	**Text, maximum 512 characters**	**The short headline description of this award**	**Needed to communicate the nature of the award.**	**NA**

Field	Format	Description	Guidance/Reason	Example
Description	**Text, maximum 2500 characters**	**The brief description of the award that is understandable by an informed but non-specialist reader (e.g. a public statement)**	**This may be the description of the expected outcomes of the award or, in the case of awarded funding for a single project, the project's description. Needed to understand what the award is about, what the award seeks to achieve, and to enable search functionality**	**NA**
Start Date	**Date, ISO 8601 format**	**Start date as indicated in award agreement or most recent variation**	**NA**	**2015-01-01**
End Date	**Date, ISO 8601 format**	**End date as indicated in award agreement or most recent variation**	**NA**	**2016-01-01**
Keywords	Text	Keywords that describe topics and/or themes of significance to the award.	Values to be comma separated, in lower case.	climate change, erosion
Value	**Number**	**The value of the resources allocated as part of the award in New Zealand Dollars. If multiple resources are being allocated in this award, this is the sum of these.**	**To understand the total funding allocated.**	**50000**

Field	Format	Description	Guidance/Reason	Example
Māori Involvement	**Code set, any of "Māori are involved in the governance of this project", "Māori are leading the operations of this project", "Members of the project team identify as Māori", "This project follows Kaupapa Māori research methods, or has a Te Ao Māori lens applied", "The outputs of this research are likely to benefit Māori", "The outcomes or broad direction of the research, science and innovation activities are likely to benefit Māori", "Other relevance to Māori" (to be speicified)**	**Comma separated list of all Māori involvement options selected.**	**NA**	**NA**

Field	Format	Description	Guidance/Reason	Example
Benefitting Region	Code set, see Benefiting Region code set on the NZRIS Github page.	The specific New Zealand region(s) and New Zealand realm countries that the award will benefit.	Only provide this information when one or more specific region(s) are expected to benefit from the project. Supply regions with "Region" suffix, multiple regions separated by commas. Region is limited to NZ regions, NZ realm countries, and Antarctica. This is not designed to capture where the project team is based. Needed to understand expected end users of the project at the regional level.	Northland Region, Waikato Region
Lead Contributor(s)	**Text**	**The contributor with overall responsibility for delivering the project. For research and development projects, this refers to the Principal Investigator or Lead Scientist**	**Supply names in the form; given name family name. Multiple names separated by commas.**	**Rosalind Franklin, Ernest Rutherford**
Other Named Contributor(s)	Text	A named contributor listed in the application and involved in the project, whose expertise is critical to the success of the project	Supply names in the form; given name family name. Multiple names separated by commas.	Rosalind Franklin, Ernest Rutherford

Field	Format	Description	Guidance/Reason	Example
Lead Organisation(s)	**Text**	**Lead organisation identified in project documentation**	**Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed.**	**The University of Auckland, University of Otago**
Sub-recipient(s)	Text	Organisation participating in research and innovation, receiving funding and/or resourcing from the lead organisation	Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed.	GNS Science, Scion
End User Collaborator Organisation(s)	Text	An organisation involved in the project which may also benefit from project outputs.	Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed.	Napier City Council, Hastings District Council

Field	Format	Description	Guidance/Reason	Example
ANZSRC Fields of Research	Code set, see the ANZSRC fields of research on the NZRIS Github page	The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Socio-economic Objectives associated with this award.	List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code.	310301 or 310301 0.80, 300101 0.20
ANZSRC Socio-economic Objectives	Code set, see the ANZSRC SEO codeset on the NZRIS Github page.	The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Fields of Research associated with this award.	List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code.	100103 or 100103 0.80, 100299 0.20
Contact Name	**Text**	**The name of the contact person for this award.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Email	**Text, email address**	**The work email of the contact person for this award.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Phone	Text, phone number	The work phone number for the contact person for this award.	Needed for establishing contacts within government and the research community.	NA

(continued)

Field	Format	Description	Guidance/Reason	Example
Provider	**Text, maximum 512 characters**	**The name of the entity providing this record.**	**Needed to record sources of information.**	**NA**
Date Updated	**Date, ISO 8601 format**	**The date the record was updated in the database.**	**Needed to record sources of information.**	**NA**
Display Contact Information in Database	**Boolean (yes/no)**	**If you specify "yes" we will include the values given for Contact Name, Contact Phone and Contact Email in the database.**	**NA**	**NA**

PROJECT

There are a total of 25 elements that form the project dataset. There are 13 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Project ID, Local Project ID, Status, Title, Description, Start Date, End Date, Keywords, Māori Involvement, Benefitting Region, Associated Output IDs, Associated Award IDs, Lead Contributor(s), Other Named Contributor(s), Lead Organisation(s), Sub-recipient(s), End User Collaborator Organisation(s), ANZSRC Fields of Research, ANZSRC Socio-economic Objectives, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

Field	Format	Description	Guidance/Reason	Example
Project ID	Text, maximum 256 characters	The identifier given to this Project by MBIE to identify it across different providers.	Added to the record following submission of data	EWRD-P-0001
Local Project ID	**Text, maximum 256 characters**	**The identifier used by the data provider to identify the project.**	**NA**	**MBIE-23-2013**
Status	**Code set, either "Active", "On Hold", "Completed", "Partially Completed" or "Cancelled"**	**The status of the project.**	**Needed to identify when projects are actively being utilised**	**NA**
Title	**Text, maximum 512 characters**	**The short headline description of this project**	**Needed to communicate the nature of the project.**	**NA**
Description	**Text, maximum 2500 characters**	**The brief description of the project that is understandable by an informed but non-specialist reader (e.g. a public statement)**	**This may be the description of the expected outcomes of the project or, in the case of projected funding for a single project, the project's description. Needed to understand what the project is about, what the project seeks to achieve, and to enable search functionality**	**NA**

Field	Format	Description	Guidance/Reason	Example
Start Date	**Date, ISO 8601 format**	**Start date as indicated in project agreement or most recent variation**	**NA**	**2015-01-01**
End Date	Date, ISO 8601 format	End date as indicated in project agreement or most recent variation	NA	2016-01-01
Keywords	Text	Keywords that describe topics and/or themes of significance to the project.	Values to be comma separated, in lower case	climate change, erosion
Māori Involvement	**Code set, any of "Māori are involved in the governance of this project", "Māori are leading the operations of this project", "Members of the project team identify as Māori", "This project follows Kaupapa Māori research methods, or has a Te Ao Māori lens applied", "The outputs of this research are likely to benefit Māori", "The outcomes or broad direction of the research, science and innovation activities are likely to benefit Māori", "Other relevance to Māori" (to be speicified)**	**Comma separated list of all Māori involvement options selected.**	**NA**	**NA**

(continued)

Field	Format	Description	Guidance/Reason	Example
Benefitting Region	Code set, see Benefiting Region code set on the NZRIS Github page.	The specific New Zealand region(s) and New Zealand realm countries that the project will benefit	Only provide this information when one or more specific region(s) are expected to benefit from the project. Supply regions with "Region" suffix, multiple regions separated by commas. Region is limited to NZ regions, NZ realm countries, and Antarctica. This is not designed to capture where the project team is based. Needed to understand expected end users of the project at the regional level.	Northland Region, Waikato Region
Associated Output IDs	Text	The local identifiers of Outputs linked to this project.	Needed to establish connections between outputs and projects, separate multiple IDs with commas.	OUTPUT-1234534
Associated Award IDs	Text	The local identifiers of awards linked to this project.	Needed to establish connections between awards and projects, separate multiple IDs with commas.	AWARD-C03-1234534
Lead Contributor(s)	**Text**	**The contributor with overall responsibility for delivering the project. For research and development projects, this refers to the Principal Investigator or Lead Scientist**	**Supply names in the form; given name family name. Multiple names separated by commas.**	**Rosalind Franklin, Ernest Rutherford**

Field	Format	Description	Guidance/Reason	Example
Other Named Contributor(s)	Text	A named contributor listed in the application and involved in the project, whose expertise is critical to the success of the project	Supply names in the form; given name family name. Multiple names separated by commas.	Rosalind Franklin, Ernest Rutherford
Lead Organisation(s)	**Text**	**Lead organisation identified in project documentation**	**Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed.**	**The University of Auckland, University of Otago**
Sub-recipient(s)	Text	Organisation participating in research and innovation, receiving funding and/or resourcing from the lead organisation	Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed.	GNS Science, Scion

Field	Format	Description	Guidance/Reason	Example
End User Collaborator Organisation(s)	Text	An organisation involved in the project which may also benefit from project outputs.	Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed.	Napier City Council, Hastings District Council
ANZSRC Fields of Research	Code set, see the FoR code set on NZRIS Github page	The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Socio-economic Objectives associated with this project.	List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code.	310301 or 310301 0.80, 300101 0.20
ANZSRC Socio-economic Objectives	Code set, see the ANZSRC SEO codeset on the NZRIS Github page.	The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Fields of Research associated with this project.	List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code.	100103 or 100103 0.80, 100299 0.20

Field	Format	Description	Guidance/Reason	Example
Contact Name	**Text**	**The name of the contact person for this project.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Email	**Text, email address**	**The work email of the contact person for this project.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Phone	Text, phone number	The work phone number for the contact person for this project.	Needed for establishing contacts within government and the research community.	NA
Provider	**Text, maximum 512 characters**	**The name of the entity providing this record.**	**Needed to record sources of information.**	**NA**
Date Updated	**Date, ISO 8601 format**	**The date the record was updated in the database.**	**Needed to record sources of information.**	**NA**
Display Contact Information in Database	**Boolean (yes/no)**	**If you specify "yes" we will include the values given for Contact Name, Contact Phone and Contact Email in the database.**	**NA**	**NA**

OUTPUT

There are a total of 18 elements that form the output dataset. There are 12 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Output ID, Local Output ID, Type, Title, Description, Access Type, Production Date, Contributor(s), DOI, ISBN, URL, Associated Project IDs, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

Field	Format	Description	Guidance/Reason	Example
Output ID	Text, maximum 256 characters	The identifier given to this Output by MBIE to identify it across different providers.	Added to the record following submission of data	EWRD-O-0001
Local Output ID	**Text, maximum 256 characters**	**The identifier used by the data provider to identify the output.**	**NA**	**BOOK-01-01234**
Type	**Code set, see ORCID work types on the NZRIS Github page.**	**The type of the output as listed in the ORCID supported work types.**	**NA**	**book**
Title	**Text, max 512 characters**	**The title of the output**	**Needed to have useful contextual information about an output that can be used for analysing and clustering topics and themes.**	**2016 Science and Innovation Domain Plan**
Description	**Text, max 2500 characters**	**Basic description of the contents of the output**	**For many output types (e.g. journal articles), this is the abstract. Needed to understand the content and nature of outputs.**	**NA**

Field	Format	Description	Guidance/Reason	Example
Access Type	**Code set, either "Open Data", "Constrained" or "Not Applicable"**	**The type of access available for the output.**	**From the NZRIS Data Specifications v2.01 p113: "Open Data" means "an open data form of output is available", "Constrained" means "access to the output is constrained (e.g. only available through a journal subscription)", "Not Applicable" means "The output is of a form in which describing data access is not applicable".**	**NA**
Production Date	**Date, ISO 8601 format**	**The date of publication, release, opening or granting**	**NA**	**2015-01-01**
Contributor(s)	**Text**	**The name of output contributor or creator(s)**	**Supply names in the form; given name family name. Multiple names separated by commas.**	**Rosalind Franklin, Ernest Rutherford**
DOI	Text	A unique alphanumeric string assigned to identify content and provide a persistent link to its location on the internet	NA	NA
ISBN	Text	A unique numeric commercial book identifier	Supply an ISBN 10 or ISBN 13, dash separated without the "ISBN" prefix	978-0-947524-25-8
URL	Text	An address to the location of the output on the internet	NA	https://www.mbie.govt.nz
Associated Project IDs	Text, multiple values comma separated	Project identifier(s) that the output is from.	Comma separate IDs	PROJ-1234-12

Field	Format	Description	Guidance/Reason	Example
Contact Name	**Text**	**The name of the contact person for this output.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Email	**Text, email address**	**The work email of the contact person for this output.**	**Needed for establishing contacts within government and the research community.**	**NA**
Contact Phone	Text, phone number	The work phone number for the contact person for this output.	Needed for establishing contacts within government and the research community.	NA
Provider	**Text, maximum 512 characters**	**The name of the entity providing this record.**	**Needed to record sources of information.**	**NA**
Date Updated	**Date, ISO 8601 format**	**The date the record was updated in the database.**	**Needed to record sources of information.**	**NA**
Display Contact Information in Database	**Boolean (yes/no)**	**If you specify "yes" we will include the values given for Contact Name, Contact Phone and Contact Email in the database.**	**NA**	**NA**